

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/041862 A2

- (51) International Patent Classification⁷: **C07K 16/00**
- (21) International Application Number:
PCT/BE2003/000192
- (22) International Filing Date:
7 November 2003 (07.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/425,073 8 November 2002 (08.11.2002) US
60/425,063 8 November 2002 (08.11.2002) US
03447005.4 10 January 2003 (10.01.2003) EP
PCT/EP03/06581 23 June 2003 (23.06.2003) EP
PCT/EP03/07313 8 July 2003 (08.07.2003) EP
- (71) Applicant (*for all designated States except US*): **ABLYNX**
N.V. [BE/BE]; Technologiepark 4, B-9052 Zwijnaarde
(BE).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **SILENCE, Karen**
[BE/BE]; Jean Tombeurstraat 21, B-3090 Overijse (BE).
LAUWEREYS, Marc [BE/BE]; Wilgenstraat 2, B-9450
Haaltert (BE). **DE HAARD, Hans** [NL/NL]; 't Zwint 1,
NL-4436 NA Oudelande (NL).
- (74) Agent: **BRANTS, Johan, Philippe, Emi**; De Clercq,
Brants & Partners, E. Gevaertdreef 10a, B-9830
Sint-Martens-Latem (BE).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**
— *of inventorship (Rule 4.17(iv)) for US only*
- Published:**
— *without international search report and to be republished
upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: SINGLE DOMAIN ANTIBODIES DIRECTED AGAINST TUMOUR NECROSIS FACTOR-ALPHA AND USES THEREFOR

(57) ~~Abstract~~—The present invention relates to polypeptides derived from single domain heavy chain antibodies directed to Tumor Necrosis Factor-alpha. It further relates to single domain antibodies that are Camelidae VHs. It further relates to methods of administering said polypeptides. It further relates to protocols for screening for agents that modulate the TNF-alpha receptor, and the agents resulting from said screening.

WO 2004/041862 A2